# DEPARTMENT OF THE ARMY SUPPLY BULLETIN

# **Army Medical Department Supply Information**

Headquarters, Department of the Army, Washington, DC 20310-2300

20 February 2007

Effective until rescinded or superseded

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#### **NOTICE**

This Supply Bulletin is devoted entirely to Materiel Equipment Information

# Errata Sheet For SB 8-75-SB-11 dated 20 November 2006

Any inadvertently omitted chapters, paragraphs, sentences, et. al, are incorporated in this Supply Bulletin following this Errata Sheet and before Section 1 of this SB 8-75-S2.

#### Title/Cover Page

After Chapter 11 line and before Appendix A line, ADD:

**CHAPTER 12 - PATIENT MOVEMENT ITEMS (PMI)** 

## Chap. 3

P. 3-8, para 3-37 (after para 3-16) is incorrectly numbered. It should read para 3-17.

-----

- P. 3-9 (new para 3-17), para 3-17, e, (3) and (4) are missing (insert).
- (3) Order more frequently for smaller quantities.
- (4) Do not permit the logistics IS to automatically reorder temporary out of stock or backordered items on a daily basis, if the item cannot be filled by the PV in a reasonable period of time. Such continuous reordering does nothing to obtain the item and increases the number of unfilled/cancelled requisitions, thereby lowering the fill rate.

-----

P. 3-53, para 3-69 f. is incorrectly numbered. Change f to d; it should be para. **3-69** d. The MTF commanders may exempt any specific instrument from MIREP for a valid reason. A record of exempt items and the reason for exemption will be maintained on file.

-----

- P. 3-53, para labeled X-X3 including a. and b. should be para
  - e. Medical instrument recycling equipment program contracts

Recycling services will be obtained through local purchase procedures. Contracts will provide for:

- (1) An itemized receipt for instruments turned over to a contractor for recycling.
  - (2) An itemized statement of recycling cost.

#### Chap 9

P 9-8, top of page – information is duplicated down to paragraph b. Delete everything down to b. Top of page should begin with para b. Cold Chain Management.

### Chap 12

Chapter 12 was omitted in SB 8-75-11. It is included in its entirety after this Errata Sheet.

#### **CUMULATIVE INDEX FOR 2006**

Replace the 2006 Cumulative Index in SB 8-75-11 with the corrected one after Chapter 12 of this Errata Sheet.

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This Supply Bulletin contains procedural guidance to augment the policies published in the revised AR 40-61, *Medical Logistics Policies and Prodcedures*.

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#### **NOTICE**

This is the last issue of the DA SB 8-75 Series to be published for 2006

## CHAPTER 12. DOD PATIENT MOVEMENT ITEMS (PMI)

### 12-1. PATIENT MOVEMENT ITEMS (PMI) EQUIPMENT

- a. DEFINITION: PMI is the specific medical equipment and durable supplies that must be available to support patient transport. The PMI program consists of designated medical equipment assets (including the consumable supplies needed for their proper use) and associated durable supplies necessary for patient transport. The DOD PMI Program inventory is contained in the allowance standard (AS) 887P series. Examples of standardized PMI include: Zoll Defibrillators, Ventilator Impact 754M, Controller Ivac Alaris MedSystem III, Suction Impact 326M, Monitor Propaq 206EL, Pulse Oximeter BCI 3303 and Oxygen Analyzer MiniOX 3000. The mission of the PMI system is to support patients' in-transit, to exchange in-kind PMI without degrading medical capabilities, and to provide prompt recycling of PMI. It is the originating Medical Treatment Facility's (MTFs) responsibility to provide the PMI required to support the patient during movement. PMI accompanies a patient throughout the chain of movement, from the originating MTF to the destination MTF, whether it is an intra-theater or inter-theater transfer. Planners must ensure that PMI is available at the correct location and ready for use.
- b. AIR-WORTHINESS RELEASE (AWR): AWR has been approved for the standardized PMI used during evacuation of patients on military aircraft. Requests to add items to the AWR list should be sent to the Commandant, AMEDDC&S, ATTN: HSMC-FC, Fort Sam Houston, TX 78234 IAW AR 40-61, section 3-22, paragraph 6d. and coordinated with HQ AMC/SGXL to include fixed wing air worthiness approval.
- c. PATIENT MOVEMENT ITEM TRACKING SYSTEM (PMITS):

  PMITS is a software system used to keep track of moveable medical assets such as PMI. It was developed by a commercial vendor and managed by the Program Management Office Defense Medical Logistics Standard System (DMLSS). PMITS keeps track of equipment by collecting scans and sharing the information with other PMITS users; thereby making the data available to those managing re-supply. The software is installed on a laptop computer and uses a barcode scanner to load the label readings into a network providing the PMI type, model and serial number of the asset. The PMITS laptop maintains the database that is refreshed every twenty-four hours. The PMITS database contains information to identify ownership, and the movement history of all scanned and tracked items. There are special printers at the PMI Centers available to create bar code labels to place on equipment. Not all units or MTFs will have a PMITS system. Those who do not have PMITS, will need to track the PMI manually, as described in para. 12.2.

#### 12-2. PROCEDURES FOR PROCESSING PMI

#### a. THEATER UNITS

Combatant Commander. Intra-theater movement of PMI is the responsibility of the theater commander. Theater policy for PMI will be established and distributed to the applicable units, as required.

#### b. CONUS MTFs

- (1) As patients are evacuated back to MTFs closer to home station, their care is the first priority. Once they are stabilized and transitioned to a ward at the MTF, the PMI is no longer needed for those patients. The PMI will be recycled, and returned to medical logistics and in turn to the nearest PMI Center.
- (2) The three divisions within the MTF that coordinate the patient's movement with PMI are; Patient Administrative Division (PAD), the Emergency Division (ED) and the Logistics Division (LOG).
- (a) The Chief of PAD will ensure that the timely notification of all inbound and outbound patients is provided to ED and LOG. PAD will also provide them a copy of the Patient Movement Request (PMR).
- (b) The Chief of ED will manage the patients and the PMI that accompanies them. Once the PMI is no longer needed for the patients, PAD will notify LOG that the PMI is available for pick up.
- (c) The Chief of LOG will ensure that PMI is picked up, as required, from ED and delivered to the nearest PMI Center location. Managing PMI assets includes tracking each item by using manual transfer documents or scanning the items using PMITS where available.
- (3) The TMO can assist in determining which AFB is closest. TAC (F144) is authorized to fund military air. TAC (A1LD) is authorized to fund routine ground transportation. PMI Center Shipping Locations are;
  - (a) 89th Medical Group/SGSL PMI Center ATTN: SSgt Matthew Bacanskas 3244 Tennessee Ave Andrews Air Force Base, MD 20762, MD 20762-5184 DSN 857-7956
  - (b) 375th Medical Group/SGSL PMI Center ATTN: Ms. Iva Merritt/ Mr. Darryl Moore 120 South Adams Street, Bldg 4020 Scott AFB, IL 62225-5300 DSN 576-1173
  - (c) 60th Medical Support Squadron/SGSL PMI Center PMI Center ATTN: SSgt Ramirez 101 Bodin Circle, Bldg 795 Travis AFB, CA 94535-1800 DSN 796-3755

- (d) 435th Medical Group/SGSL PMI Center PMI Center Ramstein ATTN: TSgt Michael Scott Unit 3215 APO AE 09094-3215 DSN 314-479-2437
- (e) Air Force Medical Support Agency (AFMSA/SGSLW) Mark For: Patient Movement Items (PMI) ATTN: Mr. Steve Messer / Mr. Stephen Winn 601 Davy Crockett Drive, Bldg 1534 Kelly USA, TX 78226-1885 DSN 945-6061
- (f) 374th Medical Support Squadron/SGSL, PMI Center Yokota Air Base JA ATTN: SSgt Joey Aroc / SrA Thomas Elliott Building 4145, Unit 5225 APO AP 96328-5225 DSN 315-225-4932)

#### 12-3. REFERENCES

For additional information refer to the below listed documents or contact ACSLOG representatives at 210 221 6044/6435.

- a. Army Regulation 40-61, Chapter 5, Medical Logistics Policies and Procedures, dated 25 January 1995.
- b. Air Force Instruction (AFI) 41-209, Chapter 8, Patient Movement Items (PMI) dated 10 March 2004
- c. *Joint Pub 4-02*, Doctrine for Health Service Support in Joint Operations dated 30 July 2001.
- d. *Joint Pub 4-02.1*, Joint Tactics, Techniques, and Procedures for Health Service Logistics Support in Joint Operations dated 6 October 1997.
- e. *Joint Pub 4-02.2*, Joint Tactics, Techniques and Procedures for Patient Movement in Joint Operations dated 30 December 1996.
- f. FM 4-02.1, Combat Health Logistics, Appendix F-Patient Movement Items dated 28 September 2001.

#### 12-4. BAR CODING METHODOLOGY AND CODES

PMI will be identified and tracked using a bar code system. The item identification code has 14 positions to identify the type of item and model. (10 Aug 06, check for latest version at: <a href="https://private.amc.af.mil/sg/sgsl/sgslpmi">https://private.amc.af.mil/sg/sgsl/sgslpmi</a>)

a. Positions 1-3 are alpha characters and identify the type of equipment item.

#### **ITEM CODES**

DEF - defibrillator

IVC - IV controller

MON - vital signs monitor

POX - pulse oximeter

PCA - pain pump (ambIT)\*\*\*\*

STR - Stryker frame

SXN - suction apparatus

OAN - oxygen analyzer

VEN - ventilator

\*\*\*\* The PCA pain pump is not an approved PMI, but is officially tracked by the PMITS. The PCA pain pump is reusable and should be returned to theater via the AF transportation system like all PMI. No exceptions.

- b. The fourth position for each equipment item will have an alpha character to specify the manufacturer and model. This means that each type of equipment (i.e. DEF or VEN) can have up to 26 combinations of manufacturer and models in the PMI program. For example, an oxygen analyzer manufactured by MSA such as Miniox 3000 would be "OANA", while the same manufacturer's older model, the Miniox III that is still in use, would be an "OANB." The fourth position would be a separate table of manufacturers and models for each equipment type. The codes for an OAN would not be the same for an MON or VEN. HQ AMC/SGXL will establish and maintain the list and ensure coordination with the PMI Centers.
- c. Positions 5-14 characters (numbers or letters) of the item's serial number (self explanatory). One key issue for the PMI Centers and Office of the Surgeon General, South c/o MCLO-P, and HQ AMC/SGXL is the barcode must contain all fourteen spaces. If while creating a barcode you have not filled in all fourteen spaces add Zeroes right after the fourth position so all fourteen spaces are completely filled. Some older bar codes may exist using the five digit index number (ECN). Those will continue to work and will eventually be changed. The PMI center will identify a user location code in the database of PMITS representing the property book owner.
- d. Of the 15 items formally in the PMI program, seven will be tracked as "groups" and will be counted as lot quantities versus by serial number. These items (litters, blankets, etc.) will use a 14 position combination of alpha characters and spaces. Changes or additions will be coordinated through ACSLOG and allow for variations or items unique to a particular Service or PMI Center.

LITTER\_NATO or LITTER\_OTHER

LITTER\_STRAPS

LITTER\_PADS

RESTRAINT SET

BLANKET\_Wool / Cotton

#### 12-5. REQUESTING BARCODE LABELS

a. The protocol for requesting bar code labels is a controlled process to maintain integrity of the PMI data base. The PMITS label must be ordered from a PMI Center or Office of the Surgeon General, South/c/o MCLO-P, or HQAMC/SGXL. This is at no cost to the unit. The requesting location must complete a Bar Code Request Form before any barcode labels will be printed and sent to the requestor.

The PMI Center will refer to the Ownership / Location Table or Office of the Surgeon General, South c/o MCLO-P for unique Army locations.

b. You don't need to have a PMITS system to label your PMI. The primary reason to put labels on MTOE PMI-like items, is in case float PMI is not available and the unit has to use property book assets to send with an evacuated patient. The PMI Center will mail the labels to the unit for application. However, prior to printing or requesting labels, the unit shall contact this office for ownership assignment in the PMITS database.

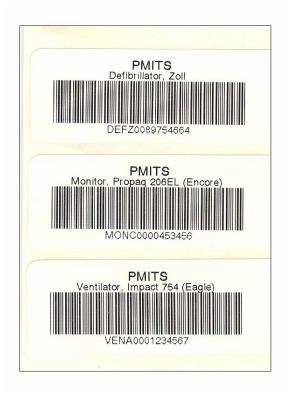


Figure 1: Bar Code Example

Barcode Reques	st Form	HQ AMC SGXL	DS	SN: 779-6952
Requester Name: Mailing Address:			Phone:	
When requesting barcode				ase fill out the table below.
Equipment Model:	Identifies the equ Lifepak 10-59)	uipment so that we can cho	ose the correct	4 letter id for the barcode (example:
PMITS Code:	The 4 letter id the	at we will use in the barcod	e, this field is no	ot required (example: DEFA)
Index #:				mbers of the barcode (example: 2056)
Serial #:	(example: 00033	676) ´		nt, this will be entered into the database
Project or Ownership #:	Project: the cate Kits, etc.) we will Asset)	gory the equipment belong assign the corresponding	sto (Unit Asset, number and ma	WRM - MASF, WRM - AELT, WRM - AE ke it part of the barcode (example: Unit
	(example: 047) it	will be entered int the PMI	TS data base	n, it can be used instead of the project
Recert Due Date:	The date when n "None") (examp		ed by MERC (if	there is no recertification date, put

### \*Required Fields

*Equipment Model	PMITS Code	*Index #	*Serial#	Project/Unit Ownership#	*Recert Due Date
Equipment Model	Plexus code	Index #	Serial #	Project or Ownership #	Recert Due Date

Figure 2: Bar Code Request Form

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#### SECTION 1. MEDICAL EQUIPMENT INFORMATION

# 1-1. ABAXIS CLINICAL CHEMISTRY ANALYZER, MODEL PICCOLO, 6630-01-415-1593

- a. The Medical Maintenance Section staff at the US Army Medical Materiel Center, Southwest Asia (USAMMC-SWA) identified possible problems with the Piccolo Model of the Abaxis Chemistry Analyzer. They have recommended that operators increase the regimen of cleaning the printer and results card slot daily and the air filter bi-weekly. It only takes about 5 minutes to do all of it. All you need is some canned air and a Phillips screwdriver. This is no guarantee to alleviate the problems, but it is a mitigating effort worth doing.
  - b. Abaxis has a FAQ site that may be useful. Please see www.abaxis.com.

### 1-2. AIRSEP OXYGEN CONCENTRATOR, 6515-01-434-4629

- a. When testing the AIRSEP oxygen concentrator for purity, it is recommended that you use a Fluke Biomedical Gas Flow Analyzer, model VT Plus or equivalent  $O_2$  measuring device with a waveform-producing capability. The VT Plus produces a waveform which enables you to identify occasional  $O_2$  output purity fluctuations. This waveform should remain fairly level and fluctuation of the oxygen levels should be minimal.
- b. When using alternative test equipment to verify the concentrator, it may appear as though the concentrator is passing the purity tests; however, visibility of intermittent fluctuations where the purity drops below acceptable oxygen levels may be unseen. Low purity is primarily a result of bad sieve beds. Additionally, a bad mixing tank can also cause fluctuations in the oxygen purity. Anytime you replace the sieve bed assembly (part #BE001-1R), you should also replace the mixing tank assembly (part #TA-089-2).
- c. There are two versions of this  $O_2$  concentrator on the market. The newer version includes a design change that is not in the OEM service manual. In the older version, the pressure outlet is located on the right side as you face the front of the unit. In the newer version, the pressure outlet is in the rear of the unit; however, access it from the right side. Remove the right side cover and locate the tube with the pressure outlet attached. Connect your pressure gauge to this tube. All other aspects of the testing are the same.

#### 1-3. ARTHROSCOPIC SYSTEM, 6515-01-431-9631

a. During preventive maintenance checks and services (PMCS) on the Olympus-America, Inc., Arthroscope, the fiber optic bundle should be inspected carefully, ensuring that it still has 80 percent light conductivity and no breaks in the center of the bundle. PMCS includes a visual inspection of the equipment for any damaged parts or deficiencies that will prevent the unit from being used or sterilized.

b. The Arthroscope System comes with one each of the following items:

3093, Fiberoptic cable, 6515-01-139-8567

7584, Single sheet with stopcock (Obturator, Conical), 6515-01-166-3504

7599, Trocar, Pyramid, 6515-01-166-3528

7600, Trocar, Blunt Tip Sleeve, 6515-01-173-2452

7595, Scope, 6515-01-171-6050

#### 1-4. AVAILABLE CD - OPERATOR AND MAINTENANCE LITERATURE

- a. Operator and maintenance literature for medical equipment is available in portable document format (pdf) on CDs. Located at appendices A, B, C, D, E, F, and G are the table of contents for seven CDs that are now available. To obtain a copy of this literature, go to USAMMA's website at **www.usamma.army.mil** and select the button "Medical Equipment Literature CDs" or call DSN 343-4379 or commercial 301-619-4379.
- b. In February 2007, a new CD will be available. Check USAMMA's website for the list of manuals on this CD and the order form.

# 1-5. BELMONT BLOOD FLUID WARMER, MODEL FMS 2000, 6515-01-465-2059

For those technicians who may have been unclear on the electrical leakage testing of the FMS 2000, here is additional information from the manufacturer. The Section V., *Maintenance and Calibration Setup* of the service manual addresses the use of a 12-to-16-gauge cannula to interface with the administration set during electrical safety testing. The purpose of the cannula in this test provides an electrical connection to the fluid for verification that the path is electrically safe. A larger or smaller cannula can be used for the electrical pathway. In the event that only a smaller 18-gauge cannula is available, it can be used to test the leakage current; however, flow rate testing if performed will be reduced as the unit will only allow 300 mmHg of back pressure. It is advisable to obtain a larger bore cannula for verification and performance testing the flow rate.

## 1-6. COMPUTED RADIOGRAPHY, OREX PCCR 1417, 6525-01-504-5002

- a. Cassette Error and Replacement Issues
- (1) A common problem with the Orex PcCR 1417 system is that when the cassettes are being erased or scanned, an error will sometimes pop up on the screen. The Error reads "WO Sensor ON State Fail." To correct this, Source One's guidance was to pull down on the cassette tabs and tap the closed end of the cassette on a table. This ensures that the plate on the inside of the cassette is positioned at the very bottom of the cassette. When the cassette is run again, the error message may be gone.
- (2) In the event that this does not correct the problem, Source One recommends that the plate be taken out of the cassette, turned 180 degrees, and reinstalled back into the cassette. Make sure to position the plate to the bottom of the

cassette by again pulling down on the tabs and tapping the cassette on a table. If this does not correct the problem, it is time to order another cassette. Doing these extra steps to increase the life of your cassette w/plate may help save precious resources.

- b. Computed Radiography System Software Issues
- (1) To solve any software issues, the USAMMA has made a DVD System Disk for this system. With this disk you may reload the complete software on the hard drive on any version of the scanner. Along with the software are the latest manual updates, and the instructions and software needed to configure the system for DICOM In, Modality Worklist, Remote Patient Entry, and Diagnostic Viewer. The USAMMA has made (and periodically updates) a list of all the scanners by serial number and lists the correct software to use.
- (2) Questions or comments should be directed to 570-895-7734 or DSN 795-7734.

### 1-7. DEFENSE REUTILIZATION AND MARKETING SERVICE (DRMS)

- a. If you are planning to send medical equipment to the Defense Reutilization Marketing Office (DRMO), the DRMS has a web site which may help you prepare the equipment for disposal. This web page contains the Safety Alert Latent Defect (SALD) Guidance which provides instructions for preparing material for disposal. Not all material requires preparation, so you will have to look up the product you are disposing. The materials are listed by the National Item Identification Number (NIIN), the last nine numbers of the National stock number (NSN). For example, the Anesthesia Apparatus Model 885A, NIIN 01-185-8446, has a SALD which requires the removal of the anesthesia head, to include the vaporizer before the material is accepted by DRMO. The web page is www.drms.dla.mil/sald/SaldForm.
- b. For any questions contact Medical Scientific Division, Materiel Acquisition Directorate, 301-619-4382 or DSN 343-4382.

### 1-8. DEFTOS DENTAL OPERATING UNIT, FIELD, 6520-01-493-3759

- a. When unpacking the Bell Dental Products Field Dental Operating Units that are sent to the medical maintenance operations depots for maintenance and repair, the hoses in pouch Number 2 are found to be pinched due to improper packing. When the unit is packed backwards (front of unit facing back of case) and when the contents of pouch number 2 are not properly packed, the result is damaged dental hoses.
- b. As stated in the operating and maintenance manual, the unit should always be packed in the case with the front of the unit facing the front of the storage case. This will protect the circuit breakers as well as the connectors, which are on the back of the unit. This will also give a flat surface to help protect the contents of pouch number 2 from being pinched. When packing the pouches, the hoses and cords should be coiled so that the diameter of each coil is as wide as possible to ensure that the pouches are not too thick when placing them into the storage case. When the pouches are too thick, the hoses tend to get pinched from the force placed on them. The laminated instruction cards should also be placed between pouch number 2 and the instrument tray assembly to ensure that the tray support doesn't pinch the hoses.

#### 1-9. DYNAMICS INTRAVENOUS INFUSION PUMP, 6515-01-498-2252

The Infusion Dynamics Intravenous Infusion Pump has an accessory called the Crystalloid and Colloid Pump Cartridge and IV Set (part number 0040-0050). Please be aware that the date on the back of the package is the date the cartridge was manufactured. There is no expiration date printed on the package. The manufacturer explained that a 3-year shelf life was specified to the Army when the infusion pump was acquired. Although it has not been tested in extreme heat, the manufacturer states that the 3-year shelf life would be shortened to a 1-year shelf life if the IV Set was exposed to such conditions.

#### 1-10. EQUIPMENT ITEMS SUPPORT AND CONSUMABLES HANDBOOKS

- a. These handbooks were developed to aid units in the identification of the start-up and re-supply consumable packages that are required to operate medical items of equipment issued by the USAMMA fielding teams.
- b. The handbooks contain the items by NSN, nomenclature, part number, quantity, unit of issue, unit price, total price, manufacturer, shelf life, refrigerated item, ship time, system description, and USAMMA points of contact. The handbooks can be used to quickly identify shortage items at time of issue, during unit inventory, and to re-supply the consumables.
  - c. Following is a list of handbooks now available:

Handbook	Last Reviewed
UA 2256 Ground Ambulance Equipment Items	19 December 2006
UA 2257 Air Ambulance Equipment Items	19 December 2006
UA 2261 Medical Patient Hold	19 December 2006
UA 2267 Forward Surgical Team Equipment Items Support And Consumables	19 December 2006
UA 4003 Optical Fabrication Unit	21 November 2006
UA 4714 Dental Equipment Set - Dental Support and Consumables	28 August 2006
UA 4720 Dental X-Ray	28 August 2006
UA 4901 Veterinary Equipment Set Service Field	21 November 2006
UA 4905 VES Detachment 50 Patient Small Animal Support and Consumables	27 November 2006
UA 4912 Vet Surgical Instrument & Supply Set	28 August 2006
UA 4913 Vet Equipment Set Service Field	25 September 2006
UA 4914 Veterinarian Set	31 October 2006

UA 5257 Air Ambulance Equipment Items Support And Consumables	5 October 2006
UA 5267 Forward Surgical Team Equipment Items Support And Consumables	31 October 2006
UA M305 Radiology	28 August 2006
UA M432 Medical Materiel Set – Radiology Computerized Tomography	25 September 2006
UA N301 Operating Room	25 September 2006
UA N302 Central Medical Materiel Set	31 October 2006
UA N303 MMS Laboratory General Deployable Medical System Equipment Set	19 December 2006
UA N703 MMS Laboratory General, 164-BED CSH CO Equipment Set	5 October 2006
UA N308 Medical Materiel Set Triage EMT Pre-OP Support and Consumables	31 October 2006
UA N309 Post-OP ICU Ward	25 September 2006
UA N310 Intermediate Care	31 October 2006
UA N311 Minimal Care Ward	28 August 2006
UA N334 MMS X-Ray Lowcap	28 August 2006
UA N503 MMS Laboratory General 84 BED CSH Company Equipment Set	19 December 2006
UA N703 MMS Laboratory General, 164-BED	19 December 2006

d. The current versions of the handbooks are available on the USAMMA website at <a href="www.usamma.army.mil">www.usamma.army.mil</a>. Select "Reference," then "Equipment Handbooks." All available handbooks will be listed; select the desired handbook.

### 1-11. HEMACOOL, BLOOD REFRIGERATOR, 4110-01-506-0895

- a. Charging lithium batteries:
- (1) Refer to HemaCool Operating Instructions for battery charging (pages 1-16 to 1-17).
- (2) Lithium batteries work by shuttling lithium ions between anode and cathode of the battery. The anode, source of the ions and electrons, is elemental lithium (or a lithium-containing compound) and the cathode, receptor of the ions and electrons, is a material capable of accepting lithium ions into its structure. When a battery is discharged, lithium ions flow from the anode to the cathode, accompanied by electrons. This flow of electrons is electrical current and can be used to power HemaCool data. The battery can be charged by supplying an external electric current, which drives the lithium ions back to the anode. This charging process "resets" the anode and cathode so that the battery can once again power your HemaCool data through a hectic day.

- (3) A lithium-ion battery provides 300-500 discharge/charge cycles. The battery prefers a partial, rather than a full, discharge. Frequent full discharges should be avoided when possible. Instead, charge the battery more often or use a larger battery. There is no concern of memory when applying unscheduled charges.
- (4) Aging of lithium-ion is an issue that is often ignored. A lithium-ion battery in use typically lasts between 2-3 years. The capacity loss manifests itself in increased internal resistance caused by oxidation.
- (5) Avoid frequent full discharges because this puts additional strain on the battery. Several partial discharges with frequent recharges are better for lithiumion than one deep one. Recharging a partially charged lithium-ion does not cause harm because there is no memory. (In this respect, lithium-ion differs from nickel-based batteries.) Short battery life in a HemaCool data is mainly cause by heat rather than charge / discharge patterns.

#### b. Charging Absorption Glass Mat (AGM) batteries:

- (1) AGM sealed battery technology was originally developed in 1985 for military aircraft where power, weight, safety, and reliability were paramount considerations. In AGM sealed batteries, the acid is absorbed between the plates and immobilized by a very fine fiberglass mat. No silica gel is necessary. This glass mat absorbs and immobilizes the acid while still keeping the acid available to the plates. This allows a fast reaction between acid and plate material.
- (2) The AGM battery has an extremely low internal electrical resistance. This, combined with faster acid migration, allows the AGM batteries to deliver and absorb higher rates of amperage than other sealed batteries during discharging and charging. In addition, AGM technology batteries can be charged at normal lead-acid regulated charging voltages; therefore, it is not necessary to recalibrate charging systems or purchase special chargers. Battery life is reduced at higher temperatures for every 15 degrees F over 77, battery life is cut in half.
- c. Technical Inspections/Service: The USAMMA has published procedures for performing a technical inspection/service for the blood refrigerator unit. See appendix H of this publication for additional information.

# 1-12. IMPACT INSTRUMENTATION, INC., VENTILATOR, MODEL 754, 6530-01-464-0267

- a. From time to time, IMPACT Instrumentation, Inc., will provide documentation to inform our customers of changes, additions, and general tips/solutions for their product line. This information will come in the PDF document called a Technical Service Bulletin (TSB). Their first TSB concerns a change in the fuse holder for the ventilator, model 754.
- b. Technical information for the IMPACT products is available for viewing on their website at <a href="www.impactii.com">www.impactii.com</a>. Look under "Support," "Technical Articles." They have also made available a special military FTP site to download operation/service

manuals and software for their products. Go to <a href="www.impactii.com/shared/calsoft.htm">www.impactii.com/shared/calsoft.htm</a>
The username is *calsoft* and the password is *LV980F71*. The password is case sensitive.

## 1-13. INVASIVE MONITORING OF MA FOR THE PHILIPS BV 300 C-ARM

- a. There is an internal closed-loop monitoring circuit for mA that compares the actual mA with the set mA. If there is a difference, the system adjusts itself. However, the capability exists to read mA invasively.
  - b. Refer to appendix I for steps and graphic illustrations of this procedure.

### 1-14. LIFEPAK 10 DEFIBRILLATOR/MONITOR, 6515-01-453-4003

- a. Tolerances vary on different defibrillator brands. For the Physio Control Lifepak 10, the acceptable tolerance for the energy delivered is plus or minus 7%. This value is mentioned in the Service Manual (pages 3-9 and 3-10) in the *Testing and Troubleshooting* section of the book.
- b. Currently, the military uses the Impulse 4000 Defibrillator and Transcutaneous Pacer Analyzer as one of the testing medical devices to check for the defibrillator's accuracy output. The Impulse 4000 testing equipment uses an automated testing function that is loaded by the manufacturer to test the Lifepak 10. Although the testing tolerance limits are set at a default of 15%, which is not the same value as the Physio Control's tolerance, the tester is still adjustable to allow for the manufacturer's different tolerances when the operator chooses to reconfigure the testing device. Ensure that the Impulse 4000 is set to the 7% tolerance. Please note that while the new tolerance may be set at 7%, the testing equipment will default to 15% on the lower 5 joules setting.
- c. Be advised that during testing of the Lifepak 10 the amount of watts delivered should be the same as listed in the service manual.

## 1-15. NARKOMED M ANESTHESIA APPARATUS, 6515-01-457-1840

Draeger Medical does not provide verification procedures for the external  $O_2$  and  $N_2O$  regulators used on the NARKOMED M anesthesia machine. The USAMMA has developed procedures to verify the performance of the regulators. The test procedures verify that the regulators operate according to Flotec specifications.

- Appendix J illustrates the verification steps for the  $\ensuremath{\text{O}}_2$  regulator, part #RN510-600.
- Appendix K illustrates the verification steps for the  $\ensuremath{\text{N}_2\text{O}}$  regulator, part #RNJM05-6005.

## 1-16. PRE-DEPLOYMENT TRAINING OFFERED

a. The DoD Biomedical Repair School, Sheppard Air Force Base, Texas, offers a 2-week pre-deployment training course for Medical Equipment Repairers. The course is an agenda-based course. Subjects taught are based on feedback from the current

theater of operation in SWA. The training is intended for Air Force personnel prior to deployment, and is limited to 8 students. A new class starts approximately every 2 weeks. Vacancies not filled by Air Force personnel are given to Army personnel on a first-come, first-serve basis. The course is free; however, attendees must pay for lodging, meals and all transportation costs to and from their home station and at the TDY location, per diem. FY07 per diem rates for Sheppard Air Force Base are \$60 for lodging and \$36 dollars for meals. It is highly recommended that units include this course as an option as part of their pre-deployment plan for their equipment repairers.

- b. The first week of training is geared towards high maintenance items such as the Impact 754M ventilator, Zoll Defibrillator, the Piccolo Chemistry Analyzer and other items based on request from the theater. The second week of training deals primarily with preventive maintenance, troubleshooting and repair of the Expeditionary Deployable Oxygen Concentrator System (EDOCS) model 120.
- c. For more information about the course or how to attend please call the Army senior instructor at 940-676-8190.

### 1-17. POGS MEDICAL OXYGEN GENERATOR, 6530-01-533-4481

- a. The POGS33C is the oxygen concentrator from ONSITE GAS SYSTEMS. It is capable of delivering 33 LPM while maintaining 93% 96% oxygen. During setup it is imperative that the  $O_2$  analyzer be calibrated correctly. While the calibration does not effect the actual production of  $O_2$ , the analyzer readings are used to alert operators in the event of low  $O_2$  production.
  - (1) The generator needs to run for 45 minutes prior to calibration.
- (2) During this period, install three flow meters and set them to a combined flow of 30 LPM. This allows the existing gases in the  $O_2$  tank to be purged by the  $O_2$  from the sieve beds.
- (3) After the 45 min start-up period, factory representatives advise to first calibrate at the High range, then the Low (20.9%) and then the High again.
- b. The VT PLUS gas flow analyzer may be used to calibrate the high range of the  $O_2$  analyzer. Build a manifold to connect three flow meters to the VT PLUS using tubing, swivel connectors, and zip ties.
- c. The POGS33C uses a model MedAir 2000 CO (carbon monoxide) and Dew Point monitor from ENMET Corporation which is mounted internally. If there is an alarm coming from within the generator, although one should not rule out the possibility that high levels of CO are present, it is possible that the MedAir 2000 is out of calibration.
- (1) The following is a list of items ENMET Corporation recommends to verify the calibration of the MedAir 2000:

Gas Regulator	037-00-500	\$145
CO Cylinder	03219-020	\$50
O <sub>2</sub> Cylinder (20.9%)	03296-209	\$50
Case (Optional)	730-83-000	\$20

(2) Additional information is available in the MEDAIR 2000 manual which should accompany the POGS 33C literature.

# 1-18. PREVENTIVE MAINTENANCE OF THE HEATER FOR THE WATER DISTRIBUTION AND WASTE WATER MANAGEMENT SYSTEM

- a. The electric water heater, NSN 4520-01-493-7423, is to provide a means of keeping the water in the potable water lines from freezing when the system is operated in a cold environment.
- b. The heater will require internal cleaning after each use. Do not operate the heater without flowing water. This will damage the heater. Unplug the power connection from the power box. Disconnect potable water hoses from the heater. Empty the water from the heater barrel by tipping the water heater and allow the water to empty from the quick disconnect fittings. Now remove the square tank end and the gasket. Clean interior and reassembly with a new gasket.

## 1-19. PUMP, INFUSION, 6515-01-452-0625 AND 6515-01-486-4310

- a. Battery Operation Testing. When performing the battery operation test portion of the system function test for the Medsystem III 2863 and 2865 as defined on page 3-10 of the OEM service manual, Alaris Medical Systems has identified a technique that can save time and money.
- (1) A one-inch square piece of red (other colors not detected) silicone rubber can be used instead of a mini-set cassette filled with water. In addition to decreased costs, this also reduces the chance of the unit alarming during this test as well.
- (2) Use a modified fluid side occlusion cassettes (reference appendix B of the OEM service manual, page A-8) and place a one-inch square piece of red silicone in the air in-line detector. Then, perform tests according IAW page 3-10 of the OEM service manual.
- (3) Modification of the fluid side occlusion cassette should be done as follows. Remove the rubber boot from the plunger stem and cut away all of the tubing from the cassette. Additionally the small square rubber film on top of the cassette must be removed while the large round rubber film needs to be left in place.
- (4) A 12" X 12" sheet of red rubber silicone (PN 8632K34) is available from McMaster Carr Company; telephone 404-346-7000 and 404-629-6500. This silicone can be used to make multiple one-inch squares of rubber. The use of this silicone will save a lot of money by not having to purchase more mini-sets (PN 28125).
- b. Lithium Battery Failure Indication. When the Infusion Pump is first turned on after removal from extended periods of storage, it is not uncommon for the pump to indicate a lithium battery failure. With the exception of clearly visible physical damage, the ensuing procedure should be followed prior replacing the lithium battery.

- (1) Charge the unit for 24 hours.
- (2) After the unit has charged for 24 hours, place the unit into maintenance mode and connect it to a computer with FMS software supplied by the Alaris.
  - (3) Re-enter the pump's specific information using the software.
  - (4) Remove the pump from the computer.
  - (5) Turn the unit off and unplug the unit from A/C.
- (6) Start the unit normally. Confirm the unit's serial number is displayed on the screen with no errors. If the serial number is displayed and no errors appear, the unit still requires a software calibration.
- (7) Place the unit back into maintenance mode and hook it up to the computer and follow your normal procedures for calibration and clearing the error logs.
  - (8) If there are errors, replace the lithium battery.
- c. Alaris Medical Systems Technical Information and Software Updates. Alaris Medical Systems has published guidance in an attempt to make technical information and software updates for their models: 2850, 2863, and 2865 series infusion pump more accessible and user friendly.
- (1) Their web address for technical support, information regarding service bulletins, software patches and upgrades is <a href="http://alaris.pint.com/na/technical/bio.shtml">http://alaris.pint.com/na/technical/bio.shtml</a>.
- (2) To order a Technical Service Bulletin, please call ALARIS Medical Systems Customer Services at 800-482-4822.
- (3) To register for online Technical Service Bulletin Access, please call Alaris Medical Systems Technical Support at 800-854-7128, extension 6003.
- d. Drive Motor Failure. The Hill Medical Maintenance Operations Division has noticed an increase in the Drive Module Kit (P/N 2860745) needing to be replaced. They have found that in some circumstances the problem can be fixed with a Motor Kit (P/N 2860760).
- e. Troubleshooting. Alaris Medical Systems published a troubleshooting guide to use when a pump latch closed alarm is displayed and the appropriate corrective action.

Pumping latch closed alarms can be reduced with the following practices:

- \* Turn the pump on **before** inserting the cassette into the pump.
- \* Angle the cassette upward and in when loading.
- \* Be sure to stop the channel **before** removing the cassette from the pump.
- \* Fully extend the cassette slide clamp when removing the cassette from the pump.

- f. To correct a latch that has closed in the up position causing a pump latch closed alarm:
- (1) Use only your finger to gently push down the closed pumping latch jaw until it snaps open, the down position.
- (2) If the pumping latch jaw is visibly broken, the channel should be disabled by pressing the "Service" key.
- (3) DO NOT press the "Service" key unless you wish to disable the channel.

# 1-20. REPLACEMENT BATTERIES FROM OTHER THAN ORIGINAL EQUIPMENT MANUFACTURER (OEM) SOURCES

- a. While rechargeable batteries are available from the OEM, we have found an alternate source that may save you money.
- b. Please check out the following <u>www.batteryclinic.com</u>. They are also available at telephones 800-786-1511 or 706-739-0407.
- c. The company has a large number of hard to find or expensive replacement batteries, such as for the Sonosite 180 Handheld Ultrasound.
- d. The OEM price \$395.00, Battery Clinic price \$108.00, and that includes cracking the case, removal of the old batteries, replacement of same and gluing it together.
- e. Batteries for the Medtronic LP-10 Defibrillator OEM price \$90.00, Battery Clinic price \$35.00. The Regional Training Site Fort Gordon, GA, has used this source of supply for batteries with great success.

# 1-21. SURGICAL LIGHT, 6240-01-455-7873, FIELD OPERATION TABLE, 6530-01-321-5592

- a. Electrical Safety testing of the surgical light (NSN 6240-01-455-7873) has disclosed that an unacceptable leakage current level exists in some of the lights that are part of the field operating table. Additional information was provided by RTS-Medical personnel at Fort McCoy, WI, that relates to the JT-101 and YH75A power supply PCBs.
- b. If your FST OR table surgical lights have an electrical leakage problem (>300 uA) follow these instructions.
- Step 1: Remove the plastic terminal cover at the bottom of the lamp column and make a <u>small</u> mark with a permanent marker on the red lead to the power supply PCB that is connected to the black lead of the incoming power cord. Continue with the disassembly of the lamp by removing the base joint assembly and middle knuckle of the lamp. Remove the two screws securing the PCB heat sink about halfway up the lamp column. Undo the wire nuts at both ends and slide the PCB out the bottom of the column.

- Step 2: Identify the board you are modifying and locate the hot lead.
- (a) If you have an YH75A board, its number will be found on the right edge of the component side of the board. The YH75A hot lead is located on the opposite side from the part number and heat sink ground lug viewed from the component side. Trace the lead from this wire and it goes to the line fuse.
- (b) A JT-101 board will be labeled on the "run" side, in the upper middle. The JT-101 board is laid out with the hot lead on the same side as the heat sink ground lug, going to a fusible link, (the very thin wire overlaying the resistor symbol silk screened on the component side). Don't be concerned if the black mark you made in step one seems to be reversed. Many of these boards were connected backwards during assembly. The fuse should <u>always</u> be connected to the incoming, (hot) side. If your connection is reversed, correct it now by gently scraping off the small black mark and applying a larger one to the hot lead. You may also mark the other red wire (neutral) with a white marker. This precludes any need to de-solder and replace the existing red wires.
- Step 3: "Float" or electrically disconnect the ground pad of the PCB. Unscrew the lug from the heat sink. Use a small diagonal cutter and snip off the lug flush with the surface of the PCB. Snip off the green ground wire where it enters the PCB. (No soldering iron needed for this step.)
- Step 4: Connect the isolated ground lug to the neutral lead. This step diverts risk current to neutral. Some risk current is induced due to the proximity of the runs on this board. The balance probably comes through the two filter capacitors which terminate on the ground pad. These caps are present on both power supply modules. They are thin film ceramic caps with high dielectric ratings (350 V to 3.3 kV on the samples encountered).
- Step 5: Acquire a 28 AWG stranded signal wire, strip it and pull out a single strand. This should measure about .010 inch in diameter. For comparison, the fusible link wire found on the JT-101 board measures about .007-inch. Solder this wire between the ground pad and the neutral pad. Use of 60/40 solder with rosin flux will facilitate this operation and probably eliminate the need for additional solder. This thin wire will carry risk current and protect the board if an equipment malfunction occurs.
- Step 6: Place a ring terminal on the line cord ground lead and connect it to the chassis with a 6-32 screw and nut. Drill a hole between and slightly below the screw holes for the line cord terminal cover. Face the screw head out and the cover should fit over it during reassembly of the lamp.
- Step 7: Reassemble and safety test the lamp using normal and reverse polarity. You may also open and close the ground switch as part of the test. This should bring the electrical leakage within (<300 uA) acceptable limits.

# 1-22. TEST, MEASUREMENT AND DIAGNOSTICS (TMDE) PROGRAM MANAGER ADDRESS

Please ensure that you have the correct address in Block 1A of DA Form 4062, TMDE Acquisition Approval Analysis Data, and the correct "FOR" line on the Acquisition Memorandum. The address should read:

TMDE Program Manager SFAE-CSS-CS-T Redstone Arsenal, AL 35898-5000.

Please make sure to use this address on your submitted memo and DA Form 4062.

# 1-23. TOOL KIT, MEDICAL EQUIPMENT MAINTENANCE AND REPAIR: REPAIRMAN'S, 5180-00-611-7923, LIN W45334

- a. General Services Administration (GSA) is the integrated material manager for this tool kit. If your organization requires the tool kit and wishes to order one, please submit a DA Form 1348, Requisition Request Form, or GSA SF Form 344, Multiuse Standard Requisitioning/Issue System Document. The request can be submitted through your standard supply requisition system or faxed to the GSA at 816-926-7971.
- b. Refer to SC 5180-8-A14, Tool Kit Medical Equipment Maintenance and Repair: Repairman's. This SC can be found on the USAMMA's website at www.usamma.army.mil.
  - c. If you need additional information please contact GSA at 816-926-6998.
- d. If you have any questions or comments please call the USAMMA Materiel Acquisition Directorate, Medical Scientific Division (MMO-AL) at DSN 343-4382 or commercial 301-619-4382.

## 1-24. VALLEYLAB ELECTROSURGICAL APPARATUS, 6515-01-309-6647

a. There are two versions of the Valleylab, Force 2, electrosurgical unit. The PRSF board in the Force 2 generator changed in 1995. You can determine the year of manufacturer of your equipment by the serial number. The charge below is an F6E9999T breakdown example.

F6E9999	T Breakdown				
F	6	E	9999	Т	
Force 2	Last number of the year of manufacturer	Month of manufacture	Body of 4 numbers indicates it was manufactured 1985 thru 1995 and was the 9999th unit made. A body of 5 numbers indicates it was manufactured from 1995 thru present.	Also stands for Force 2	
In this example the Force 2 was manufactured in May of 1986 and it was the 9999 <sup>th</sup> unit manufactured.					

- b. Units manufactured before 1995 have a verification procedure as well as a calibration procedure in the OEM service manual. Units manufactured after 1995 have only a calibration procedure.
- c. It has been determined that the default auto sequence in the Fluke Biomedical 454A Electrosurgical Analyzer does not meet Valleylab's standard for testing the Force 2 generators. An auto sequence can be manually created in the 454A that

will meet the Valleylab test standard of a 200 ohm load when doing RF output tests. The following tests must be entered into the auto sequence.

(1) Generator Output tests with a 300 ohm load should be at the following settings.

Coog	30 Watts
Coag	120 Watts
Pure Cut	300 Watts
Blend 1	250 Watts
Blend 2	200 Watts
Blend 3	150 Watts
Microbipolar	70 Watts

(2) RF Leakage tests with a 200 ohm load, both active and dispersive leads, should be used at the following settings. Use the following identified wattage setting.

Pure Cut	35	55	75	95	115	135	155	175	195	300
Coag	55	75	105	115	120					
Microbipolar	70									

d. Do not use a disposable pencil to test the RF Leakage; this will give you false readings. Use the active accessory and activate it using the footswitch.

### 1-25. VENTILATOR, 6530-01-464-0267

a. Total Flow Backup Message.

Sometimes the 754M ventilator fails to generate a "**Total Flow Backup**" error/alarm/message when the flow is obstructed.

- (1) The black bushing (P/N 340-0019-00) between the compressor air inlet assembly and the compressor barb eventually stretches and develops a leak allowing the compressor to pull air from inside the ventilator. When this occurs, the ventilator will not generate a "Total Flow Backup" alarm even though partially occluding the compressor inlet fitting.
  - (2) Follow the steps below for generating the "Total Flow Backup" alarm:
    - (a) Ensure that the settings are correct.
    - (b) Unscrew the 22mm gas outlet adapter from the manifold assembly.
    - (c) Remove the 400m transducer screen from the manifold assembly.
    - (d) Let the ventilator cycle 4 to 5 breaths.
    - (e) The "Total Flow Backup" alarm should occur.
- (f) Press the Mute/Cancel push-button. The alarm LED and audible alarm should turn off and the AMC message should remain.
- (3) If the preceding test failed to produce a "Total Flow Backup" error/alarm, verify that the black bushing between the compressor air inlet assembly and the compressor barb is functioning properly.

### b. Incorrect Battery Charging Voltage

During routine checks of the 754M Ventilator, if the battery charging voltage is below the tolerance voltage of 12 volts DC, check the output of U1 on the motor drive circuit board. The part number for the motor drive board is 702-0754-05. The part number for U1 is 055-3578-00.

- c. Air intake manifold servicing/cleaning for the 754M.
- (1) While performing PMCS on the 754M Impact Ventilator, if there is a failure to produce sufficient air flow (6.01 lpm) on either the  $O_2$  or air regulated by the manual valve control test fixture, it can be traced back to the  $O_2$ /air intake manifold.
- (2) To correct this problem, remove the intake manifold from the ventilator. Disassemble the variable orifice valves from both  $O_2$  and regulated air sections. After locating and removing the 400 micro filter screen and o-ring, submerge remaining aluminum blocks in 70% alcohol solution. Use canned air to blow dry block and orifices. Swab a few drops of alcohol into the flow ports of the four variable orifice valves and use canned air to blow dry. Reassemble manifold and perform an air flow test. The 400 micron screen can also be ultrasonically cleaned or canned air may be used to clean as needed.
- (3) If there is a failure to produce sufficient air flow on either the  $O_2$  or Air outputs, and you suspect the problem is due to dirty 500 micron screen transducers contact your supporting Medical Maintenance Division for repair.
  - d. HEPA Filtration and Premature Compressor Failure.

The 754M ventilator air entrainment port does not come standard with a HEPA filter installed. When the ventilator is operated in a clean environment like a hospital, a HEPA filter covering the air-entrainment port is generally not needed. However, it is recommended that when the ventilator is operated in an environment exposed to higher than normal levels of airborne contaminants that a HEPA filter be installed. See appendix L for additional information concerning HEPA Filtration.

#### 1-26. ZOLL DEFIBRILLATOR, MONITOR RECORDER, 6516-01-515-4197

Non-Invasive Blood Pressure (NIBP) Leak Testing Procedure

- (1) Zoll Medical Corporation is in the process of publishing revised NIBP leak testing limits (PM Procedure #20.0) to reflect the variances between the two different testing methodologies associated with different types of NIBP Analyzers.
- (2) Zoll's service manual calls for a BIO-TEK BP Pump NIBP Monitor Analyzer or equivalent in its testing procedures. The requirement to identify two different limits is based on the use of a test cuff when using the DNI CUFFLINK Analyzer.
- (3) Zoll has identified the following leak test limits for the two types of Analyzers:

(a) BIO-TEK BP PUMP NIBP MONITOR ANALYZER - No change.

A volume leak reading less than or equal to 4 mmHg, the unit passes the test.

A volume leak reading greater than 4 mmHg; the unit fails the leak test.

### (b) DNI CUFFLINK ANALYZER

 $\,$  A volume leak reading less than or equal to 10 mmHg  $^{-}$  the unit passes the test.

 $\,$  A volume leak reading greater than 10 mmHg - the unit fails the test.

(4) This information provided by the Senior Technical Support Representative, Zoll Medical Corporation. Phone 1-800-242-9150, ext. 9195; e-mail <a href="mailto:jtoma@zoll.com">jtoma@zoll.com</a>.

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# Operator & Maintenance Literature for Medical Equipment Disc 1

10/20 Standards, Maintenance Allocation Chart, and Equipment List for Reportable Medical Equipment

6230-01-481-2214 Floodlight Emergency, Med-Tent-LT

Operator Guide and Parts List

\*6515-00-137-6511 Electrosurgical Apparatus Portable, LM-90

Service Manual User Manual

6515-01-279-6450 Monitor Oxygen Battery Power, 5120

Operation and Maintenance Manual

Service Manual

6515-01-309-6647 Electrosurgical Apparatus Portable, Force 2

Service Manual TM 8-6515-003-24&P

6515-01-327-6798 Concentrator Oxygen, AS 005-1

Patient Manual

6515-01-429-1381 Defibrillator/Monitor-Recorder, Lifepak 10

6515-01-453-4003

Operating Instructions Service Manual

6515-01-434-4629 Concentrator Oxygen, AS 005-4

Service Manual

6530-01-321-5592 Table Operating Field (FST)

Assembly and Packing Instructions

6530-01-325-9299 Ventilator Volume Portable, Bear 33

Maintenance Manual Clinical Instruction Manual

6630-01-411-2568 Analyzer, Clinical Chemistry, I-Stat 111000

System Manual

6630-01-415-1593 Analyzer Blood, Piccolo

Operator's Manual

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\*6640-01-257-1944 Centrifuge Laboratory, Microhematocrit, Compur 1100

6640-01-068-9612

Operating Manual and Servicing Instructions

6640-01-326-1590 Rotator Laboratory, 14-251-200

<u>Instructions</u>

6640-01-431-5696 Rotator Laboratory, 1314

Operation Manual

 $<sup>\</sup>mbox{*}$  For parts support call Medical Maintenance Support Division, Utah (commercial 801-586-4949/4950 or DSN 586-4949/4950, fax X5058).

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### Operator & Maintenance Literature for Medical Equipment Disc 2

4110-01-451-2356 Refrigerator Solid State Biological, M-30TR

Maintenance Manual

6515-00-137-6511 Electrosurgical Apparatus, Portable, SSE2L

Service Manual

6515-01-355-6479 Vaporizer Anesthesia Drawover, 1101-9001-000

Operation and Maintenance Manual

6515-01-378-4176 Craniotome Power System, MD030

Operator's Manual Service Manual

6515-01-414-3607 Cryosurgical System, CE-2000

Service Manual

Operation and Maintenance Manual

6515-01-423-5796 Monitor Patient Vital Signs, 106EL w/spo2 6515-01-423-5872 Monitor Patient Vital Signs, 106EL

User's Guide

<u>Calibration/Maintenance Manual</u> <u>Schematics and Drawings Set</u>

6515-01-432-2707 Monitor Patient Vital Signs, 206EL w/spo2

6515-01-432-2711 Monitor Patient Vital Signs, 206EL w/spo2 and capnography

Directions for Use Reference Guide

**Update** 

6515-01-434-1999 Blood/Fluid Warmer & Infusion, System 1000 (Sims Level 1)

Owners Manual

6515-01-435-5350 Suction Apparatus Oropharyngeal, 325M

Instruction Manual, Operation and Service

6515-01-464-0267 Ventilator Volume Portable, 754M Eagle

Operation and Service Manual

6520-00-181-7349 Dental Chair and Stool Unit, CM-185

Installation and Repair Manual TM 8-6520-004-14&P

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6520-01-456-7170 Dental Unit, Self-Contained, ADU-10CF

Operation and Maintenance Manual Service Manual and Parts List

Portable Air Compressor, AA-75CF

Operation and Maintenance Manual Service Manual and Parts List

6525-01-325-3740 X-ray Apparatus, Portable, 1200

6525-01-457-1536

Operation and Maintenance Manual

6525-01-345-6089 Processing Machine Radiographic, Curix 60

Operator's Installation and Instruction Manual

\*6530-01-429-6715 Sink Unit Surgical Scrub, RPC 1000

Operator's, Organizational, Maintenance Manual

6540-00-181-8037 Lens Measuring Instrument Ophthalmic, 4001

Instruction Handbook

6540-01-032-4518 Light Slit Ophthalmic, Marco V

Instruction Manual

\*6540-01-145-8775 Chair Optometry, Portable

Technical Manual

6540-01-241-6965 Slit Lamp, SL-6E

Service Parts List TM 8-6540-002-14&P

6545-01-302-0228 Sink Unit, Surgical Scrub, Field

TM 8-6545-001-24&P

6640-01-258-0006 Shaking Machine Laboratory, Vortex Genie 2

Operating and Installation Guides

6640-01-316-5084 Centrifuge, 708T

Operation and Service Manual

6650-01-293-7240 Microscope Optical, Labophot 6650-01-325-3747 Microscope Optical, Labophot2

Operation and Preventive Maintenance

6650-01-406-1828 Microscope Optical, BX40F3

Instructions

<sup>\*</sup> For parts support call Medical Maintenance Support Division, Utah (commercial 801-586-4949/4950 or DSN 586-4949/4950, fax X5058).

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# Operator & Maintenance Literature for Medical Equipment Disc 3

4110-01-117-3902 Refrigerator, Mechanical, Blood Bank, BBR37SS-1B-03

TM 8-4110-001-24&P

Commercial Operating Instruction Manual

4110-01-249-4476 Refrigerator, Mechanical, Blood Bank, CT1-1B-06

Commercial Operating Instruction Manual Commercial Maintenance Manual

4110-01-287-7111 Solid State Refrigerator, DLA-50T

TM 8-4110-002-14&P Operational Manual Maintenance Manual

\*4110-01-287-7111 Thermostabilizer for Blood, RCB42 P

Service Manual

6515-01-174-1477 Suction and Pressure Apparatus, 317M

Instruction Manual, Operation and Service

6515-01-185-8446 Anesthesia Apparatus, 885A

Instruction and Service Manual with Illustrated Parts List

TM 8-6515-001-24&P

6515-01-242-9123 Suction Apparatus, 308M

6515-01-304-6497

TM 8-6515-004-24&P

Instruction Manual, Operation and Service

6515-01-267-2726 Suction Apparatus, 306

6515-01-267-2727

TM 8-6515-013-14&P, 306M

Instruction Manual, Operation & Service, 306 Series

\*6515-01-291-1198 <u>Defibrillator/Monitor-Recorder, 43110MC, Operating Guide</u>

Defibrillator Module, 43130M, Service Manual

\*6515-01-291-1199 Monitor-Recorder Module, 43200M/MC/MD, Service Manual

6515-01-313-6242 Digital Thermometer, 600

Directions for Use Manual Technical Manual TM 8-6515-012-14&P (continued) APPENDIX C: CD 3 TABLE OF CONTENTS

6515-01-383-0922 Anesthesia Ventilator, 7000

Service Manual

Operation and Maintenance Manual

6515-01-452-0625 <u>Infusion Pump, MedSystem III</u>

Service Bulletins

MedSystem III Directions for Use

Technical Service Manual MedSystem III Infusion System

6520-00-000-0158 Dental Light Set, LF II

TM 8-6520-001-24&P

Installation Instructions, Operating Instructions, Use and Care Manual

Service Manual, Repair Manual, and Parts List Manual

6520-00-139-1246 Dental Compressor-Dehydrator, M5B

TM 8-6520-003-24&P Technical Manual

6520-00-139-1246 Dental Compressor-Dehydrator, PAC 6.7

6520-01-398-4613

Technical Manual, Defiance Electronics

Owners Manual/Parts List, HP Series, Piston Air Products

HP Series, 1 & 1-1/2 Horsepower, Pneumotive Service Procedures

6520-00-140-7663 Dental Operating Unit, Porta-Cart 3406

6520-01-272-4531

Operation and Maintenance Instructions

TM 8-6520-002-24&P

6520-00-966-3729 Electric Laboratory Dental Furnace

Instructions for the Operation and Maintenance

6520-01-333-5961 Dental System, FUS336

Operation and Maintenance Instructions

6520-01-343-8126 Portable Field Dental Unit, 2100M

Operation and Maintenance Manual

6520-01-446-3783 Portable Dental Chair, ADC-01CS

Operation and Maintenance Manual

6525-01-303-6235 X-ray Processor, AFP 14X-3

6525-01-370-7552 Portable Dental X-ray System, ALPHA MPDX

Operation Manual Maintenance Manual

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6525-01-422-6122 Processing Machine, Radiographic Film with Daylight Loader

Installation, Operation, Service, and Parts Manual

\*6530-00-926-2151 Portable Sterilizer System, M-138

<u>Instructions</u>

TM 8-6530-004-24&P

<u>6530-01-244-0708</u> <u>Field Hospital Surgical Light, 2420</u>

Service Manual

6530-01-246-1906 Portable Intermittent Traction Machine, Tru-Trac TT-92B Series

Operating Instructions Service Manual

6530-01-306-1771 Validator, 8" and 10"

Operator's Manual Service Manual Parts List, 8"

6530-01-308-7740 Sink Unit, 950S936

Hamilton Installation Operation and Maintenance Manual

6530-01-327-0686 Portable Ventilator, 750 and 750M

TM 8-6530-009-24&P

Instruction Manual, Operation & Service

6530-01-374-8903 Portable Ventilator, Bird Avian

Operator/Service Manual

<u>6530-01-442-8720</u> <u>Steam Sterilizer, MC 8 and MC 10</u>

Service Manual GLS-8 and GLS-10

<u>6630-01-284-6546</u> <u>Analog pH Meter, Orion Model 301</u>

Commercial Maintenance and Operation Manual

<u>6630-01-300-8711</u> <u>Analyzer, Sodium Potassium, 614</u>

Instruction Manual Service Manual

6630-01-316-5085 Centrifugal Analyzer, QBC II

Maintenance Manual for the QBC II Reader, Model 4477

Operator's Manual For The QBC II Plus Centrifugal Hematology System and

Maintenance Manual For The QBC Centrifuge, Model 4207

6630-01-364-8555 Portable Blood Gas Analyzer, GEM-STAT

Comprehensive Service Manual

Operator's Manual

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6640-01-034-0479 Colony Counter, 3325, 3326, 3327, 3328

Instruction Manual

6640-01-143-2055 SERO-FUGE and SERO-FUGE II Laboratory Centrifuge, 0521, 0522, 0541

TM 8-6640-001-24&P Operator's Manual

6640-01-283-9308 <u>Viewer Agglutination</u>

6640-01-302-1025 Oven, STG80 Operation/Instruction/Maintenance Manual

6640-01-315-5382 Laboratory Centrifuge, Z 320

Instruction Manual Service Manual

6650-00-973-6945 StereoZoom Series Microscope

Instruction Manual

6650-01-259-3008 Field Microscope, FM 600

Maintenance Manual Instruction Manual

<sup>\*</sup> For parts support call Medical Maintenance Support Division, Utah (commercial 801-586-4949/4950 or DSN 586-4949/4950, fax X5058).

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4110-01-291-7046 Mechanical Field Ward Refrigerator

Operation and Maintenance Manual

4110-01-320-1699 Redundant Refrigeration System, MBF-500

Service Data Manual

4110-01-358-3836 Refrigerator-Mechanical, Biological, ERB-5-0378

Operation and Maintenance Manual

4110-01-450-0060 Blood Plasma Freezer, CTF1-1B-06

Service Manual

Electronic Temperature Recorder Manual

Monitor DTPM Series Installation and Operating Instructions

Transformer & Recording Thermometer Installation, Operation and Service Manual

6515-01-150-7840 Blood/Fluid Warmer, FLOTEM IIe

Operation Instruction Manual Technical Maintenance Manual

6515-01-241-7531 Suction Apparatus (Uni-Suction Pump)

Description and Function

Service Manual

6515-01-261-0484 Aspirator, RS-4, RS-6 & RS-5X

Operators Manual

6515-01-293-5578 Doppler Ultrasound Instrument, D8

Operator, Instruction and Service Manual

6515-01-318-1558 Arthroscopic Surgical Unit, MIL-D-42048

**Maintenance Instructions** 

6515-01-376-6564 Upper GI Fiberscopes, FG-24X, FG-27X, FG-32X, FG-32X, FG-34X

Owner's Manual

6515-01-379-7852 Cutter-Vacuum, Orthopedic Cast, 940

Maintenance/Operator's Manual

6515-01-386-4354 Transcutaneous Electrical Nerve Stimulator, Maxima II

Operation Manual

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6525-01-312-6411 Continental X-ray, CS-8952

Operator's Manual 9023-401

Volume II

Shipping Retrofit Instructions, Manual 9023-407

6525-01-369-7178 Portable Darkroom X-ray, PDR-1

Technical Manual

Operating Instructions and Service Manual

6525-01-384-9296 X-ray Apparatus, Clinix VP4

System Operator's Guide

System Installation Manual, Table/SynerGen

Service Manual, X-ray Generator Installation Manual, Collimator

Installation Manual, Table

Parts List for Clinix VP4

Schematics 1 for Clinix VP4

Schematics 2 for Clinix VP4

6525-01-425-5216 Dental X-ray Apparatus, HDX

Installation, Operation & Maintenance Manual

6525-01-468-1672 Portable Dental X-ray Unit, MinXray P200D Mark III

**Installation and Operating Instructions** 

6525-01-480-2199 Medical Filmless Imaging System, (8 models)

6530-01-127-2215 Whirlpool Bath, 290

6530-01-206-6016

Maintenance Manual and Operating Instruction Manual

<u>6530-01-128-2442</u> <u>Whirlpool Bath</u>

Mobile Hydrotherapy Unit – Operation, Service and Repair Parts Manual Electric Turbine Ejector – Operation, Service and Repair Parts Manual

Electrical Converter - Operation and Maintenance Manual

6530-01-244-1976 Solution Warming Cabinet – Two Compartment, 7924-SSDP

6530-01-207-0827

Operator's Manual Maintenance Manual

<u>6530-01-244-8101</u> <u>Medi-Therm Hyper/Hypothermia, MTA-4700/MTA-4701/MTA-4702</u>

Service Manual

Operating Instruction Manual

<u>6530-01-254-4135</u> <u>Mobile Ultrasonic Cleaner, MSC-900T-11/21</u>

Operating Instruction Manual

Maintenance Manual

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6530-01-306-9510 Sterilizer, Surgical Instrument and Dressing Operator's Organizational Maintenance Manual

6530-01-353-9883 Surgical Tables

Maintenance Manual, 2080M and 2080M I.A.

Equipment Manual, 2080IA

Water Distribution and Waste Water Management System (WDWWMS)

Plasma Coagulation Timing Instrument, Electra 750

Operator's and Organizational Maintenance Manual Water Distribution Set, Hospital, DEPMEDS 6545-01-435-6914 6545-01-434-9624 Wastewater Management Set, Hospital, DEPMEDS 6545-01-435-6013 Waste-Water Augmentation Set, Hospital, DEPMEDS 6545-01-480-6913 WDWWMS Maintenance Set, Hospital, DEPMEDS Water Distribution Set, Hospital, MRI 84 Bed 6545-01-491-4732 Wastewater Management Set, Hospital, MRI 84 Bed 6545-01-491-4728 WDWWMS Maintenance Set, MRI 84 Bed

Service Manual

6545-01-491-4698

6630-01-344-9996

6630-01-376-9823 Chemical Clinical Analyzer

Service Publication for the DT60 Analyzer and DTE Module

Service Publication for the DTSC Module

6640-00-765-0621 Water Bath, Imperial III

**Instruction Manual** 

6640-01-249-1212 Pipette Shaker, 0621010

Technical Manual

6640-01-291-8390 Hot Plate/Stirrer, 502 Series

Operating and Maintenance Manual

6640-01-308-7749 Refrigerated Centrifuge, 3497

Instruction Manual

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# Operator & Maintenance Literature for Medical Equipment Disc 5

3540-00-457-2699 Hematron Dielectric Sealer, 4R4330/4R4340

Operator's Manual Service Manual

4110-00-837-6441 Ice-O-Matic, C Series Cuber

Service & Parts Manual

4110-01-422-6809 Blood Bank Refrigerator, Harris

Operators Manual Service Manual

Repair Parts and Support Kits

Instruction Insert

4110-01-504-1157 Commercial Refrigerator, Refrigerator/Freezer & Freezer

Owner's Instructions

6515-01-153-9649 Fiber Optic Light Source, 52-1201

6515-01-283-6221

Owner's Manual TM 8-6515-006-24&P

6515-01-246-1938 Suction Apparatus, 6003

Maintenance and Service Manual

TM 8-6515-008-24&P

6515-01-259-4307 Suction Apparatus, GOMCO 6053

Operation, Maintenance, and Service Manual

TM 8-6515-009-24&P

6515-01-269-6056 Electrosurgery Unit, 774

Operating & Service Manual

6515-01-285-4617 Fiberoptic Bronchoscope, F3 and F3G

TM 8-6515-005-24&P

6515-01-293-5577 Pulse Oximeter, 3040G

Operator's Manual Service Manual

6515-01-318-1558 Arthroscopic Surgical Unit

TM 8-6515-010-14&P

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6515-01-327-4155 Endoscopic Instrument Light, DLMP-300

Operation & Maintenance Manual

TM 8-6515-007-24&P

6515-01-358-9480 Thermal Drainage Unit, 2590-120G

<u>Instructions for Operation and Maintenance</u>

6515-01-397-5212 MiniStim Peripheral Nerve Stimulator, MS-II

Instruction Manual

6515-01-432-2707 Monitor Patient Vital Signs, 206EL w/spo2

6515-01-432-2711 Monitor Patient Vital Signs, 206EL w/spo2 and capnography

Update and Service Manual

Directions for Use Reference Guide

**Update** 

6515-01-446-6766 Oximeter, BCI 3303

Clinician's Operation Manual

Service Manual

6515-01-457-1840 Anesthesia System, Narkomed M

Technical Service Manual

6515-01-466-0971 Finger Pulse Oximeter

Instruction and Service Manual

<u>6520-01-345-6089</u> <u>Table Top Processor, Curix 60</u>

Operator's Installation and Instruction Manual

**Technical Documentation** 

6525-01-496-4229 Ultrasound System PLUS, Sonosite

Service Manual

6525-01-504-5002 Scanner, PcCR1417 (Automatic Cassette Loading Version)

Interface Guide, Version 2.5.1.09
ACL4 System Installation Manual

ACL4 System User Manual

ACL4 System Service Manual

6530-00-709-8175 Field Operating Table

TM 8-6530-011-14&P

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6530-01-254-4135 Mobile Ultrasonic Cleaner

TM 8-6530-005-24&P

6530-01-269-1802 Warming Cabinets, 5540, 5545, 5550

Service Manual Operator Manual Installation Instructions Parts Catalog

Service Manual, Revision C, 5520, 5525, 5530

TM 8-6530-007-24&P, Model 5520 TM 8-6530-008-24&P, Model 5550

6530-01-321-5592 Field Operating Table with ARC

Field Operating Table Assembly and Packing Instructions

ARC Instruction Manual

6530-01-343-2033 Surgical Field Light, 2410MB

Operator Manual TM 8-6530-010-24&P

<u>6630-01-247-1331</u> <u>Digiclot II Coagulation Timer, 820</u>

Operator's Manual Operator Instructions Service Manual Parts Lists Schematics

820 Procedure Summary

6630-01-300-8711 Analyzer, ISE Na<sup>+</sup>/K<sup>+</sup>, 614

Operator's Guide Instruction Manual Service Manual

6640-01-416-7345 Centrifuge, SERO-FUGE 2000 Series

Operator's Manual

Multiple NSNs Water Distribution and Waste Water Management System

Operator's and Organization Maintenance Manual

N/A Maintenance Expenditure Limits for Medical Materiel

<u>TB MED 7</u>

N/A Operating Guide for Medical Equipment Maintenance

TB MED 750-1

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AR 40-61 (Medical Logistics Policies and Procedures) Augmentation

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N/A Portable Oxygen Generation System, POGS 33

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6515-01-104-0396 Light Source, MILS-1

Operation and Maintenance Manual

6515-01-287-0607 Tourniquet System, A.T.S. 1500

Operator & Service Manual

6515-01-290-8949 Ancillary Coaxial System

Instruction Manual

6515-01-335-9383 Surgical Microscope, Wild M650/M690

Training Manual Service Manual Spare Parts Manual Instructions for Use

6515-01-342-9195 Vital Signs Measurement System (Thermometer), 2080

Service Manual

6515-01-378-4529 Ultrasound Stimulator, Intelect Model 700-C

Operator's and Service Manual

6515-01-397-5257 Surgical Operating Microscope, Wild M690

Spare Parts Catalog

6515-01-435-0050 Surgical Suction Apparatus, Gastrointestinal Abdominal Drainage, 326M

Operation & Service

<u>6515-01-457-1840</u> <u>Narkomed M Anesthesia System, Part No. 4114179</u>

Operator's Instruction and Setup Manual

Drager-Vapor 2000 Anesthetic Vaporizer Instructions for Use

Technical Service Manual

6515-01-503-3369 Pulse Oximeter, PalmSAT 2500

Operator's Manual

6520-01-045-6407 Ultrasonic Dental Unit with Automatic Fine Tuning, 2001

Installation and Service Manual

6525-01-099-2320 Portaray Heliodent 70 with Dentotime, D3152

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6525-01-268-5152 CURIX ID Camera, 8400/300/340/350

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6525-01-503-7170 Ultrasound System, C1.99 PLUS and ELITE

Service Manual User Guide

6530-00-709-8175 Field Operating Table

Service Data Service Manual TM 8-6530-011-14&P

6530-01-292-7700 Ultraviolet Hand Lamp, Spectroline EN 140L - BV

Operator's Manual

6530-01-330-7455 Water Recovery System (Use with Sterilizer NSN 6530-00-926-2151)

Draft Technical Manual - Operator's Manual

6530-01-459-4569 COLPAC Master Chilling Units, C-2, C-5, C-6

Instructions for Use and Operation

<u>6540-01-340-0844</u> <u>Eye Magnet, Series 10K</u>

Operation Instruction Manual Maintenance Instruction Manual

6545-01-284-3035 Cystoscopic Kit, MILGUDI-1

Operation and Maintenance Manual

6640-01-246-1989 Serological Water Bath, 148007

Instruction and Maintenance Manual

6640-01-271-4094 Dry Heat Incubator, 110444

Instruction and Maintenance Manual

6640-01-308-7749 Refrigerated Centrifuge, 3497

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6640-01-315-5382 Laboratory Centrifuge, Z320

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<u>6640-01-416-1385</u> <u>Flo-Thru CO2 Incubators, 325GVT, 325-1GVT</u>

Service Manual

Service and Operating/Instruction Manual

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6640-01-463-0068 Automated Microbiological Panel Reader, AutoSCAN - 4

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6650-01-293-7240 Microscope Labophot 6650-01-325-3747 Microscope Labophot2

Operation and Preventive Maintenance

6650-01-406-1828 Microscope, BX40 System

Service Manual

6695-01-255-2855 Calibration Analyzer, RT-200

Operation/Service Manual

N/A Defibrillator Analyzer, QED-III

Operator's Manual

N/A Portable Dental X-ray Unit, MinXray P200D Mark III

**Installation and Operating Instructions** 

N/A Power Instrumentation for Small Bone Surgery

Instruction Manual

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# Operator & Maintenance Literature for Medical Equipment Disc 7

6515-01-327-6798 Oxygen Concentrator, Model NewLife

6515-01-434-4629

New Life® Elite Oxygen Concentrator Patient Manual
New Life® Elite Oxygen Concentrator Service Manual

New Life® Oxygen Concentrator Service Manual

New Life® Oxygen Concentrator Patient Manual

6515-01-429-1381 Defibrillator/Monitor/Pacemaker, Model Lifepak 10

6515-01-453-4003

Operating Instructions
Service Manual

6515-01-452-0625 Multi-Channel Infusion Pump, Model MedSystem III

6515-01-486-4310

**Directions for Use** 

Directions for Use with Drug List Editor

Technical Service Manual

6515-01-513-0989 Life Support for Trauma and Transport (LSTAT), Model 9602B

**User Manual** 

6515-01-515-4197 ZOLL Defibrillator Monitor Recorder, Model M Series

Operator's Guide

Operator's Guide - Manual Insert

Service Manual

**Configuration Guide** 

12-Lead ECG Monitoring

Non-Interpretive 12-Lead ECG Monitoring

Base PowerCharger 4x4 Operator's Manual

Base PowerCharger 4x4 Service Manual

Base PowerCharger 4x4 Service Manual Insert

Base PowerCharger 1x1 Operator's Manual

Base PowerCharger 1x1 Service Manual

End-Tidal Carbon Dioxide (EtCO<sub>2</sub>)

**Invasive Blood Pressure** 

Invasive Blood Pressure Service Manual

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Non-Invasive Blood Pressure Service Manual

**Temperature** 

Temperature Service Manual

Critical Care Transport (CCT) Service Manual

**CCT Insert** 

Military Airworthiness-Certified CCT Manual Insert

Military Airworthiness-Certified CCT Service Manual Insert

XL Battery

Pulse Oximetry (SpO<sub>2</sub>)

Rectilinear Biphasic Waveform Defibrillator Option

6520-01-313-6250

Dentsply®/Cavitron®, Ultrasonic Dental Unit, Model 3000<sup>TM</sup>

**Installation and Service Manual** 

6520-01-493-3759

Dental Field Treatment and Operating System, Model PortaBELL II

Operating and Maintenance Manual

6525-01-505-7780

Dental X-Ray Apparatus, Model DEXIS®

User's Manual

Installing Dexis on a Network

**DICOM Conformance Statement 2.0** 

6525-01-514-9962

Radiographic X-Ray Apparatus, Model BuckyDiagnostic

BuckyDiagnost Bucky Unit Instructions for Use

BuckyDiagnost VE/VT Wall Bucky Instructions for Use

BuckyDiagnost FS Movable Floor Stands Instructions for Use

BuckyDiagnost TH2/TF Patient Tables Instructions for Use

Measuring Chambers 8 mm Filing Instructions

BuckyDiagnost Floor System – System Manual Installation

BuckyDiagnost Floor System – System Reference Installation

System BuckyDiagnost FS - Subsystem Manual

SMCM BuckyDiagnost - Adjustment Instruction INALFA

System BuckyDiagnost TH2/TF- Subsystem Manual

System BuckyDiagnost Ceiling System- BuckyDiagnost VE/VT V2 with ACL 4

**Bucky Unit INALFA** 

NICOL X-Ray Beam Limiting Device

Simplified Diagram Power Supplies

Simplified Diagram X-Ray Beam Limiting Device

Wiring Diagram X-Ray Beam Limiting Device

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Service Reference Sheet Shutter/Iris/Filter

Service Reference Sheet Ruler Controller

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Converter R/F

X-Ray Generation – Subsystem Manual OPTIMUS RAD

Replacement of PCB C300

6525-01-523-1989 MinXray Radiographic X-Ray Apparatus,

Model HF120/60 HPPWV Power Plus

HF120/60HPPWV Power Plus<sup>TM</sup> Service Manual

HF120/60HPPWV Power Plus<sup>TM</sup> High Frequency Portable X-ray Unit Installation and Operating Instruction

HF120/60HPPWV Power Plus<sup>TM</sup> Preliminary Technique Chart

High Burst™ Electronic Design – Perfect for Digital Imaging

Manually Operated X-Ray Collimator Model R-72/32-A

6545-01-507-2140	Water Distribution and Wastewater Management System (WDWWMS)
6545-01-507-7170	6545-01-434-9624
6545-01-435-6013	6545-01-480-6913
6545-01-491-4732	6545-01-491-4728
6545-01-491-4698	6545-01-502-4969
6545-01-502-4992	6545-01-502-4991

Operations and Maintenance Manual

6625-01-192-9460 Battery Support System (for Lifepak Systems)

Service Manual

6640-01-258-0006 Shaking Machine Lab, Model Vortex-Genie 2®

Operating Instructions Vial Attachment 0A-0570-010

# APPENDIX H. REFRIGERATOR, BLOOD, 4110-01-506-0895, PMCS PROCEDURES

1. The following is a list of TMDE required for the complete PMCS of the ACUTEMP model: HMC-MIL-1 Blood Refrigerator unit.

TMDE ITEM REQUIRED	TMDE ITEM USED
Digital Thermometer	
Safety Analyzer	
Computer (for data log downloads)	

2. This item requires a DA Label 2163 (CVC) with a Frequency of "A" and code of "I".

Note: When unit is in storage, every attempt should be made to ensure the batteries are charged IAW the manufacturer's recommendations.

- 3. PMCS Checklist
  - a. Visual checks
    - (1) Check for NSN label. The item may or may not have a label on the side.
    - (2) Check for external/internal damage.
    - (3) Verify that all accessories are available.
- (a) Stainless Steel blood bag baskets: one set of 10 each (check for sharp burs on the basket and shave as necessary).
  - (b) 40 amp hour battery set, two 20-amp hour batteries: set of 2 each
  - (c) AC power cord
  - (d) DC power cord
  - (e) Operation and Maintenance manuals (hard copy 1 each)
  - (f) Service and Repair manual (hard copy 1 each)
  - (g) Operation and Service Manual on CD (1 each)
  - (h) Service and Repair manual on CD (1 each)
  - (i) Hemalog software CD (1 each)
  - (j) Sponge (1 each)
  - (k) Screwdriver (1 each)
  - (I) Replacement filters (10 each)
  - (4) Inspect unit's LCD display which should be centered in the window.
- (5) Inspect unit's LED display, it should be clearly visible without any obstructions. The manufacturer and USAMMA have determined that visibility of ¾ of the circle on the LED is the minimum acceptable. It was agreed that the items will be no less than ¾ of the LED circular area.
  - (6) Inspect unit for missing internal blood baskets.
  - (7) Inspect unit's exterior for missing hardware such as missing vents or filters.
- (8) Inspect unit's latches and verify they are able to close. **CAUTION: Some are** too far away from each other which will cause excessive strain on the plastic components of the refrigerator.
- (9) Inspect Lithium battery cover holder for broken clips. **CAUTION: These clips** enable the cover to latch to the holder itself and are susceptible to breaking.

- (10) Inspect unit's serial number at power up on the displayed LCD screen.
- (11) Inspect the cooling fan is blowing on the side of the unit.
- (12) Inspect inner tub/payload of unit for any irregular appearance of the plastic liner.
  - (13) Inspect the battery percentage is 100% after 24 hours of continuous charge.
- (14) Inspect the LCD display for any error coded on the screen relating to the battery. (NOTE: A zero value listed on the data log in the battery charge section along with an error code on the LCD means the control board needs replacement.)
- (15) Check Service Mode: With the lid closed, press and hold "MODE" for 3 to 5 sec. Press "DISPLAY" once. Verify that the top right or the screen displays "K:\_\_\_\_\_L". When the lid is opened, the "L" will no longer be displayed, only the "K:\_\_\_\_\_". This verifies that the magnets on the lid are getting read by the unit.
  - b. Verify firmware version procedure
- (1) Operational enhancements to the HemaCool 5 firmware were last made on 19 May 2005. There were adjustments made to the control algorithms which allow the units to maintain COOL and FREEZE set point temperatures under more extreme conditions. Units with firmware dates prior to 19 May 2005, although not necessary for proper operation, should be considered for firmware upgrades that may potentially improve their already noteworthy performance.
- (2) An additional change that was implemented in the 19 May 2005 firmware is the elimination of the annoying audible alarm that is emitted when the HemaCool is first conditioned. This means that when the HemaCool is first changed from IDLE to either COOL or FREEZE, the alarm will not sound until after the unit has achieved the set point.
- (3) Not all HemaCool 5's are capable of running the updated firmware. To verify your unit has the latest firmware revision or is able to be upgraded, do the following:
- (a) Verify your unit has a serial number 5000 or greater. The firmware upgrade is only applicable to serial numbers 5000 and greater.
  - (b) Plug the unit into an AC outlet and leave in IDLE mode.
- (c) Depress and hold MODE key for 3-4 seconds until the display page changes to a diagnostic screen, then release.
  - (d) Depress and release center DISPLAY button to page to the next screen.
- (e) The date at the top left hand of the screen is your firmware release date. If it displays a date prior to 19 May 05, one should consider having the unit's firmware upgraded.
- (4) With the latest version (19 May 05) of the HemaLog software loaded on PC and connected to the unit with a standard serial cable, upgrading the firmware of the HemaCool is a simple 2 click process. Follow the instructions described on page 1-32 of the HemaCool Operating Instruction Manual. Contact AcuTemp Technical Support if you need the latest version of the firmware or need any assistance.
  - c. Performance checks.

Follow Manufacturer's Recommended Checkout Procedures

### d. Cleaning

- (1) **CABINET.** Clean the exterior with mild soap and water. Never use abrasive scouring powders.
- (2) **INTERIOR AND DOOR.** Wash interior compartment and door gasket with soap and water. Mix 2 tablespoons of baking soda (if available) with one quart of warm water. Do not use an abrasive powder, solvent, polish cleaner or undiluted detergent.
- (3) **STAINLESS STEEL TOP.** Clean all stainless steel components of the sink using a stainless steel cleaner.

### e. Packaging

- (1) Pour about a pint or so of antifreeze into the pump housing and ensure there are no leaks from the sink.
  - (2) Pack the accessories.
  - (3) Wrap the sink with bubble wrap or
  - (4) Band the top and bottom horizontally along the folding lips of the box.
  - f. Tips for the Medical Equipment Repairer;
- (1) Perform visual inspection on unit to be tested for discrepancies related to assembly.
- (2) Read the log on the unit to determine the cycle intervals to be within the specified 4 hours tolerance at normal ambient temperatures. Battery voltages should never fall below 12.0 VDC, if it does, replace immediately. Important to input the proper date and serial number as well as time on the initial power up of the unit because this will be useful on the units data log.
- (3) Thermistor of the Unit's payload, responsible for the displayed temperature reading, is located inside the payload chamber bottom center, secured by a zip tie. Give the test equipment ample time to stabilize.
- (4) If unit does not power up with AC power verified by a non-working power supply led, replace board.
- (5) If unit is not within tolerance, board replacement is required or the unit needs to be sent to the OEM as of this time for insulation replacement repair is required and is only performed at the manufacturer's level at this time.
- (6) Upon review of the units data log, if there are missing information anomalies in the processors communication between the compressor and the CPU, separate the unit in question and tag with the appropriate tag to prevent unintended use. Example: missing codes stated on number 7 of this write up.

### (7) Status codes on equipment data log:

Y/N	On/Off
L/F	Cool/Freeze
С	Compressor On
Н	Heater On (Unit Goes On Cool Mode From Freeze By
	Activating Heater)
0	Lid Open

For additional information, contact ACUTEMP, 7610 McEwen Road, Dayton, OH 45459; phone: 937-312-0114, FAX: x-1277, <u>www.acutemp.com</u> or <u>www.support@acutmep.com</u>.

### APPENDIX I: INVASIVE MONITORING INSTRUCTIONS

There is an internal closed-loop monitoring circuit for mA that compares the actual mA with the set mA. If there is a difference, the system adjusts itself. However, the capability exists to read mA invasively. Procedures to follow are:

- 1. Remove front and left side panels
- 2. Remove cable SHA4-X1 from board SHA4
- 3. Install "test cable" in series with serial plug MAMEAS and cable SHA4-X1
- 4. Insert banana plugs into DC volt meter
- 5. Make x-ray and capture reading volts DC
- 6. VDC = 3 times mA actual (i.e., 4.5VDC = 1.5mA)









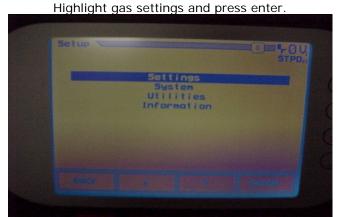
### APPENDIX J. EXTERNAL O2 REGULATOR VERIFICATION

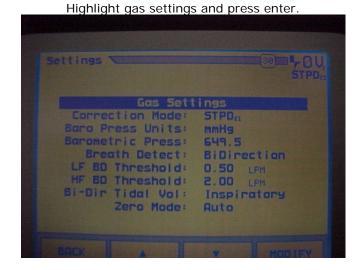
Install External O<sub>2</sub> Regulator to H or K size Oxygen cylinder. Make sure cylinder has 250 - 3000 psi.



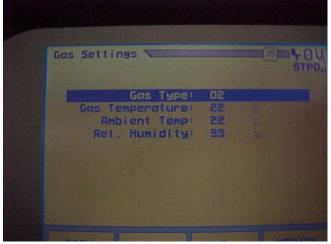
Install one end of Oxygen hose to the  $O_2$  regulator output connector. Setup VT Plus to read oxygen pressure. Power up and let it zero after 5 minutes. Press the pressure test mode button. Press the setup button. Highlight settings and press enter.







Set the gas to read O<sub>2</sub>.

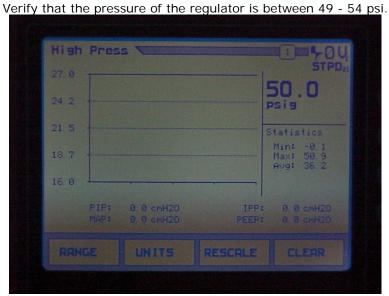


Press back until in the pressure test mode again.



Install the other end of the oxygen hose to the positive pressure connection of the VT Plus.

Open the oxygen (H or K) cylinder.



Disconnect the oxygen hose from the  $O_2$  regulator. Disconnect the  $O_2$  regulator from the oxygen cylinder.

# APPENDIX K. EXTERNAL $N_2O$ REGULATOR VERIFICATION







Connect one end of a blue  $N_2O$  hose to the regulator output connector.



Connect the other end of the blue  $N_2O$  hose to the  $N_2O$  fitting from the Narkomed Kit Part # 4114807 (fitting with male connection).



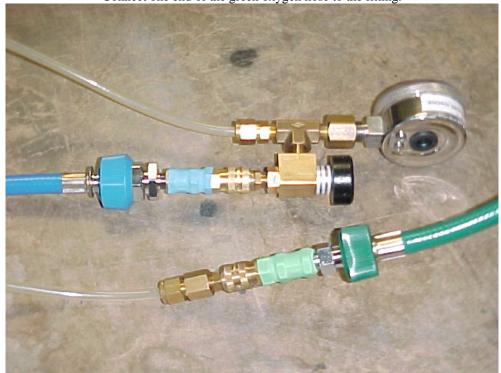
Connect the High Pressure Test Gauge to the N<sub>2</sub>O fitting.



Connect the hose of the High Pressure Test Gauge to male oxygen fitting from the Narkomed Kit Part #4114807.



Connect one end of the green oxygen hose to the fitting.

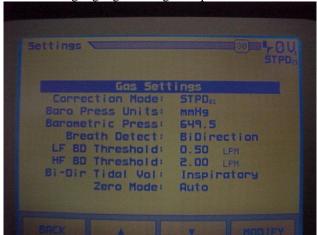


Setup the VT Plus to read  $N_2O$ . Power up and let it zero after 5 minutes. Press the pressure test mode button.

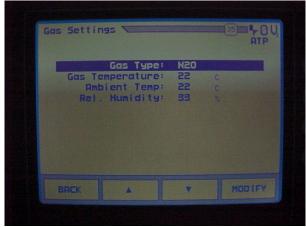
Press the setup button. Highlight settings and press enter.



Highlight gas settings and press enter.



Set the gas to read N<sub>2</sub>O.



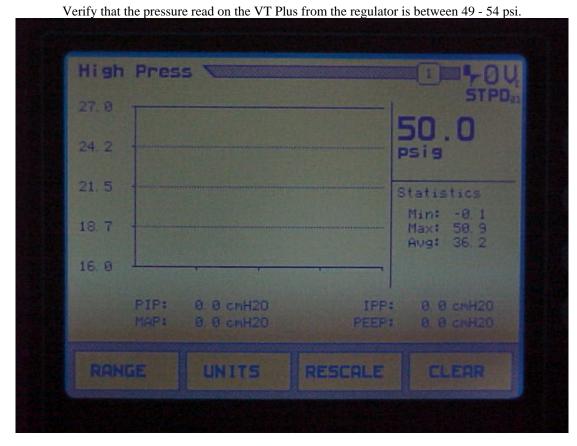
Press back until in the pressure test mode again.



Connect the other end of the oxygen hose to the positive pressure connection of the VT Plus.

 $Open \ the \ N_2O \ (H \ or \ K) \ cylinder.$  Press and hold the push button on the High Pressure Test Gauge.





Disconnect all fittings, hoses, and components of this test and return to proper location.

### APPENDIX L. USE OF HEPA FILTER WITH IMPACT 754M VENTILATOR

This Appendix to SB 8-75-S2 is regarding the failure of the IMPACT 754M portable ventilator during use of the internal compressor. Operating the ventilator in a dirty or contaminated environment may hinder the performance of the internal compressor leading to premature failure. IMPACT Instrumentation, Inc., has a HEPA filter that can be used to alleviate or remedy this situation. Portions of information used in the following paragraphs are consistent with information provided by the Centers of Disease Control, www.cdc.gov.

- 1. HEPA filters are regarded as the best form of air filtration devices available today. HEPA stands for High-Efficiency Particulate Arrestance. According to U.S. Military Standard MIL-STD-282, HEPA filters are defined as air-cleaning devices that have a proven minimum removal efficiency of 99.97% of particles in the air equal to 0.3 um (microns) in diameter with higher efficiency for both larger and smaller particle sizes. The reason 0.3 microns is used in the definition is because it's the particle size in which all mechanical filters are LEAST efficient in capturing and removing from the air. A micron is a measure of length: 1 micron equals 1 millionth of a meter. A particle size of 10 microns or less is not visible to the naked eye.
- 2. The Uni-Vent® Eagle™ Model 754 comes equipped with an internal compressor. The compressor is a mechanical component that generates air pressure for ventilation. Pressure is needed to deliver a volume of gas to the patient. In order for the compressor to operate, it needs to entrain air from the atmosphere. The Eagle′s™ air entrainment port does not come with a HEPA filter installed. When the ventilator is operated in a clean environment like a hospital, a HEPA filter covering the air-entrainment port is generally not needed. It is highly recommended that when the ventilator is operated in environments where it is exposed to higher than normal levels of airborne contaminants that a HEPA filter be installed. The HEPA filter will help protect the inside of the ventilator from contamination and prolong the life of the internal components by preventing the build up of foreign matter like dust and dirt.
- 3. Use of a HEPA filter will also help protect the patient's airway from exposure to this foreign particulate matter. Undesirable contaminants that the HEPA filter will help block include: smoke, mold, hair, dust, dirt, pet dander, bacteria, viruses, and fungi. Please note that "HEPA-Type" filters may look like a certified HEPA filter; however, their performance may not match that of a true HEPA filter. No filter, including a true HEPA filter, can trap 100% of all contaminants. However, in terms of efficiency and performance, HEPA filters are the highest performing air filtration devices currently available. HEPA filters should ALWAYS be used in situations where the ventilator must be operated in contaminated environments. Two additional features of HEPA filters that add to their value is that unless the air entering the filter is humidified, bacteria and viruses that are trapped in the filter will dry out and die. The second feature is that the filter becomes more efficient over time because as the filter gets filled with trapped particles, it becomes more difficult for matter to pass through the filter. Depending on use and level of contaminate exposure, HEPA filters, like a regular filter need to be changed based on the manufacturer's recommendation.

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By Order of the Secretary of the Army:

PETER J. SCHOOMAKER General, United States Army Chief of Staff

Official:

Administrative Assistant to the Secretary of the Army

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